

# CATALOGUE

OF THE

## STATE AGRICULTURAL & MECHANICAL COLLEGE

OF

## ALABAMA.

1879-80.

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AUBURN, ALABAMA.

# BOARD OF TRUSTEES.

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REV. I. T. TICHENOR, D. D.,

*President and Professor of Moral Philosophy.*

COL. R. A. HARDAWAY, A. M., C. E.,

*Commandant and Professor of Engineering.*

J. T. DUNKLIN, A. M.,

*Professor of Ancient Languages.*

W. C. STUBBS, A. M.,

*Professor of General and Agricultural Chemistry.*

OTIS D. SMITH, A. M.,

*Professor of Mathematics.*

W. H. CHAMBERS, A. M.,

*Professor of Agriculture.*

P. H. MELL, JR., A. M., M. E.,

*Professor of Natural History.*

REV. G. W. MAXSON, A. M., M. E.,

*Professor of English Literature.*

E. R. RIVERS, C. E.,

*Instructor in Collegiate Department.*

C. C. THACH, B. E.,

*Principal of Preparatory Department.*

O. C. McGEHEE, B. S.,

*Instructor in Preparatory Department.*

J. H. DRAKE, M. D.,

*Surgeon.*

WILLIAM C. STUBBS, A. M.,

*Secretary of Faculty.*

E. R. RIVERS, C. E.,

*Librarian.*

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COL. R. A. HARDAWAY,

*Commandant.*

CAPT. E. R. RIVERS,

*Post Adjutant.*

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## CADET OFFICERS.

H. G. PERRY,

*Adjutant.*

H. B. URQUHART,

*Color Bearer.*

J. J. SYKES,

*Quartermaster Sergeant.*

Lieut. C. B. MCCOY,

*Assistant Quartermaster.*

G. R. HALL,

*Sergeant-Major.*

### Company A.

*Captain :*

ALVA FITZPATRICK.

*First Lieutenant :*

G. W. STEVENS.

*Second Lieutenant :*

H. L. MARTIN.

### Company B.

*Captain :*

J. C. STREET.

*First Lieutenant :*

H. G. PERRY.

*Second Lieutenant :*

R. Y. STREET.

### Company C.

*Captain :*

E. A. PRICE.

*First Lieutenant :*

E. J. GARRISON.

*Second Lieutenant :*

B. F. ATKINSON.

### Company D.

*Captain :*

R. E. THOMAS.

*First Lieutenant :*

SAMUEL CALLAWAY.

*Second Lieutenant :*

B. L. WALKER.



# CATALOGUE OF STUDENTS.

(BY CLASSES AND COURSES.)

Sc. stands for Course in Science. Ag. Agriculture. C. E. Civil Engineering.  
L. Literature. \* Commercial Course. † Irregular.

## GRADUATES—CLASS OF 1879.

ANDREWS, MARK SAMUEL, A. B. .... Montgomery, Alabama.  
BLAKE, WYATT HEFLIN, B. S. .... Randolph county, Alabama.  
DILLARD, FRANK BARTOW, B. E. .... Auburn, Ala.  
DOWDELL, JOSHUA SILAS, A. B. .... Chambers county, Ala.  
MCGEEHEE, OLIVER CLARK, B. S. .... Montgomery County, Alabama.  
O'HARA, ALLEN BARTHOLOMEW, B. E. .... Chambers county, Ala.  
OLIVER, THOMAS MCCARTY, B. S. A. .... Auburn, Ala.  
PINCKARD, JOHN OSCAR, B. E. .... Randolph county, Ala.  
SHIPP, J. E. D., A. B. .... Cusseta, Georgia.

## FIRST CLASS.

ASHCRAFT, J. T., C. E. .... Clay county, Ala.  
ATKINSON, BENJAMIN F., L. .... West Point, Georgia.  
CANTEY, SAMUEL BENTON, C. E. .... Russell county, Ala.  
CALLAWAY, SAMUEL, C. E. .... Montgomery county, Alabama.  
DAVIS, JOHN STEPHEN NEAL, C. E. .... Lee county, Ala.  
FITZPATRICK, ALVA, C. E. .... Montgomery, Ala.  
GARRISON, E. J., L. .... Clay county, Ala.  
HALL, GEORGE R., Ag. .... Bullock county, Ala.  
MARTIN, HARRISON LAFAYETTE, L. .... Henry county, Ala.  
MCCOY, CHARLES B., Sc. .... Opelika, Ala.  
OUSLEY, R. F., L. .... Ousley, Georgia.  
PERRY, HENRY GAITHER, L. .... Auburn, Ala.  
PRICE, EDWIN ARMSTRONG, Ag. .... Huntsville, Ala.  
STEVENS, GEORGE W., C. E. .... Randolph county, Ala.  
STREET, JABEZ CURRY, C. E. .... Clay county, Ala.  
STREET, ROBERT Y., Sc. .... " " "  
SYKES, J. J., Ag. .... Lawrence county, Ala.  
THOMAS, ROSS E., C. E. .... Tallapoosa county, Ala.  
URQUHART, HOMER B., L. .... Auburn, Ala.  
WALKER, BARTOW L., C. E. .... Union Springs, Ala.

## SECOND CLASS.

ACREE, W. U., Sc.....	Newton, Alabama.
ALEXANDER, C. D., C. E.....	Prattville, Ala.
CALLAWAY, JOSEPH, L.....	Montgomery county, Alabama.
CRITTENDEN, O. H., C. E.....	Macon county, Ala.
DAVENPORT, D. F., Ag.....	Americus, Georgia.
JETER, JOSEPH H., Ag.....	Opelika, Ala.
JONES, JESSE G., Ag.....	Montgomery county, Alabama.
LAMAR, WM. H., L.....	Lee county, Ala.
LANGHORNE, J. M., Ag.....	Perry county, Ala.
LETCHER, J. T., C. E.....	Coosa county, Ala.
MITCHELL, ALEXANDER JORDAN, C. E.....	Russell county, Ala.
OUSLEY, CLARENCE N., L.....	Ousley, Georgia.
QUINLAN, FRANK P., C. E.....	Mobile, Ala.
ROSS, BENNETT BATTLE, L.....	Auburn, Ala.
SIMMONS, W. H., L.....	Dale county, Ala.
TAYLOR, WILLIAM DANA, C. E.....	Montgomery county, Alabama.
TRAMMELL, J. D., C. E.....	Macon county, Ala.
VAN HOOSE, E. I., Sc.....	Auburn, Alabama.

## THIRD CLASS.

ASHLEY, W. A.....	Montgomery county, Alabama.
AVERETT, C. L.....	Cusseta, Georgia.
BARNES, JOHN R.....	Opelika, Ala.
BATTLE, C. E.....	Lumpkin, Georgia.
*†BRUISTER, R. L.....	Choctaw county, Alabama.
CARDEN, G. A.....	Opelika, Ala.
†CATCHING, J. T.....	Coosa county, Ala.
CATTS, S. J.....	Dallas county, Ala.
†CHRISTIAN, JOHN B.....	Wilcox county, Ala.
CLEGG, A. M.....	Columbus, Georgia.
†*CUNNINGHAM, J. D.....	Clarke county, Ala.
CUNNINGHAM, W. H.....	" " "
DENNIS, S. M.....	Tallapoosa county, Alabama.
DRAKE, E. A.....	Thomaston, Georgia.
DRAKE, F. L.....	" "
†DRANE, HENRY.....	Buena Vista, "
DUDLEY, F. J.....	Columbus, "
EEERHART, BARTOW.....	" "
FITZPATRICK, B. H.....	Montgomery, Ala.
GLASS, P. J.....	Lee county, Ala.
GLENN, GEO. E.....	Columbus, Georgia.
HARDAWAY, BEN. H.....	Auburn, Ala.
†HEARD, R. L.....	Norcross, Georgia.
HEATH, J. M.....	Talbot county, Georgia.
†HOUSTON, T. W.....	West Point, Georgia.

HUTCHINSON, N. R.	Harris county, Georgia.
HUTCHINSON, P. M.	“ “ “
INGRAM, T. L.	Columbus, Georgia.
JONES, W. H.	Union Springs, Ala.
LAMAR, HOWARD	Auburn, Ala.
LAPSLEY, JAMES.	Selma, Ala.
LIGON, R. F.	Tuskegee, Ala.
†MANGUM, D. B.	Auburn, Ala.
MANGUM, T. F.	“ “
MCGOUGH, GEO. L.	Glennville, Ala.
†McLAURINE, F. W.	Bullock county, Ala.
MITCHELL, HARDIN S.	Russell county, Ala.
MORRIS, T. J.	Fort Gaines, Georgia.
ORUM, G. A.	Bullock county, Ala.
†PARKE, J. B.	Selma, Ala.
PEARSON, H. L.	Dadeville, Ala.
PEARSON, W. W.	Tallapoosa county, Ala.
†*PIPPEN, A. R.	Courtland, Ala.
†PUGH, J. L.	Eufaula, Ala.
REID, J. M.	Auburn, Ala.
SAMFORD, N. P. D.	“ “
†SMITH, B. B.	Dadeville, Ala.
STEVENS, M. S.	Auburn, Ala.
STROM, J. E.	Lee county, Ala.
TATUM, B. F.	Montgomery, Ala.
THACH, R. H.	Athens, Ala.
†URQUHART, R. H.	Auburn, Ala.
WAGNON, J. E.	Lee county, Ala.
WARREN, B. H.	Choctaw county, Ala.
WEED, S. L.	River Mills, Ala.
WOOD, W. J.	Troy, Ala.
WOODROOF, J. W.	Mooresville, Ala.

## FOURTH CLASS.

*ALLEN, H. A.	Birmingham, Ala.
ALEXANDER, W. T.	Georgetown, Georgia.
BOYKIN, J. C.	Atlanta, Georgia.
†*BOYKIN, J. F.	Lee county, Alabama.
*BULGER, R. H.	Elmore county, Ala.
†Crittenden, L. F.	Lee county, Ala.
†DAVIS, G. B.	Eufaula, Ala.
ELMORE, B. F.	Elmore county, Ala.
*ETHRIDGE, J. E.	Perry county, Ala.
*FIELD, W. H.	Eufaula, Ala.
FITZPATRICK, B. J.	Montgomery, Ala.
†FOUNTAIN, J. C.	“ “
FRANCIS, W. C.	Lake City, Florida.

GAY, C. L.....	Montgomery, Ala.
HANKINS, LOUIS.....	Richmond, Virginia.
*HARDIN, TABOR.....	Auburn, Ala.
HEAD, O. C.....	Lee county, Ala.
*HORN, J. J.....	Perry county, Ala.
HURT, W. M.....	Auburn, Ala.
*JOHNSON, A. D.....	Harris county, Georgia.
*JONES, ALBERT.....	Montgomery county, Alabama.
JONES, R. H.....	Union Springs, Alabama.
*KELLY, W. H.....	Montgomery, Ala.
*KIDD, W. M.....	Elmore county, Ala.
*LAMB, R. E.....	Montgomery, Ala.
LEWIS, E. G.....	Selma, Ala.
LONG, P. H.....	Lee county, Ala.
McTYER, S. B.....	Eufaula, Ala.
*MOORE, LUCIUS.....	Wilcox county, Ala.
MORRIS, E. M.....	Eufaula, Ala.
NEAL, FLETCHER.....	Auburn, Ala.
NEAL, T. M.....	Harris county, Georgia.
PARKER, F. L.....	Coosa county, Ala.
*PEAGLER, T. W.....	Greenville, Ala.
PEARSON, L. W.....	Dadeville, Ala.
PERSONS, J. W.....	Auburn, Ala.
*POWE, ALEX.....	Wilcox county, Ala.
*ROBERTSON, J. T.....	Georgetown, Georgia.
RUSHIN, J. T.....	Elmore county, Ala.
SALE, J. C.....	Opelika, Ala.
*SCOTT, I. M.....	West Point, Georgia.
SLATON, C. C.....	Tallapoosa county, Ala.
*SPIERS, J. H.....	Montgomery, Ala.
STONE, J. M.....	Millview, Florida.
†*STOUDENMIRE, H. H.....	Coosa county, Ala.
SUTTON, R. L.....	Opelika, Ala.
SWOOPPE, C. C.....	Lawrence county, Ala.
TIGNER, J. O.....	Meriwether county, Georgia.
TOWNSEND, T. H.....	Limestone county, Ala.
*WALKER, SAMUEL.....	Maplesville, Ala.

#### PARTIAL COURSE.

HODGE, H. W. W.....	Salem, Ala.
KNOWLES, H. C.....	Lee county, Ala.
NEELY, F. T.....	Hillsboro, Ala.
SAMFORD, C. A. L.....	Auburn, Ala.
SWOOPPE, W. C.....	Lawrence county, Ala.

#### FIRST SECTION.—FIFTH CLASS.

ALEXANDER, E. P. Jr.....	Augusta, Georgia.
*ALLEN, J. H.....	Talbotton, Georgia.

BALDWIN, B. J. Jr.	Union Springs, Alabama.
BOYD, W. T.	Cross Keys, Alabama.
CHAMBERS, JOHN B.	Russell county, Alabama.
CHISHOLM, W. E.	Montgomery, Ala.
COTTINGHAM, W. T.	Macon county, Ala.
*CRADDOCK, A. M.	Tallapoosa county, Ala.
*DEWBERRY, T. J.	Talbotton, Georgia.
DICK, J. K.	Auburn, Ala.
*DOWNING, W. D.	Point Coupee Parish, Louisiana.
*FITTS, WAVERLY.	Perry county, Ala.
GASTON, Z.	Eufaula, Ala.
GAY, J. F.	Montgomery, Ala.
GLENN, E. T., Jr.	Auburn, Ala.
*GOODMAN, A. J.	West Point, Georgia.
*HILL, E.	" " "
IRBY, T. E.	Camden, Alabama.
*JOHNSON, J. E.	Clintonville, Ala.
*MCGEE, W. J.	" "
MEHAFFEY, A. T.	Montgomery county, Alabama.
*PARKER, W. B.	Coosa county, Alabama.
*PEAKE, W. T.	Lowndes county, Ala.
POWELL, B. S.	Lowndesboro, Ala.
PURIFOY, J. C.	Wilcox county, Ala.
RAMSER, MAJOR.	Eufaula, Ala.
*REESE, C. E.	Lowndesboro, Ala.
ROBINSON, J. B.	Memphis, Tennessee.
*SANDERS, G. B.	Macon county, Ala.
*SELDEN, G. M.	Uniontown, Ala.
SLAUGHTER, A. W.	Auburn, Ala.
SMITH, R. E. L.	Dadeville, Ala.
*TEMPLE, H. H.	Coosa county, Ala.
THARP, A.	Houston county, Georgia.
THARP, W.	" " "
THOMAS, J.	Lee county, Ala.
TRAMMELL, THOS.	Macon county, Ala.
*UNDERWOOD, E. J.	Uniontown, Ala.
WHETSTONE, L.	Lowndesboro, Ala.
WILLIAMSON, S. K.	Bullock county, Ala.
WOMBLE, J. E.	Talbot county, Georgia.
WRIGHT, W. T.	Lee county, Alabama.

## FIFTH CLASS.—SECOND SECTION.

ALLISON, G. A.	Auburn, Alabama.
ALLISON, P. E.	" "
ARMISTEAD, R. L.	Tuscumbia, Ala.
BALKUM, J. A.	Abbeville, Ala.
BRADFORD, J. N.	Auburn, Ala.
BULLOCK, J. A.	Washington county, Mississippi.

CORRY, R. S.....	Pollard, Ala.
CRAWFORD, W. H.....	Macon county, Ala.
DAVIDSON, J. P.....	Uniontown, Ala.
DELBRIDGE, J. A.....	Auburn, Ala.
DUMAS, R. F.....	" "
DYESS, C. A.....	Uniontown, Ala.
GAY, W. D.....	Montgomery, Ala.
HARDIN, W. A.....	Auburn, Ala.
*HARRIS, J. N.....	Titus county, Texas.
IRWIN, H. F.....	Montgomery, Ala.
JONES, T.....	Russell county, Ala.
KILLEN, W. J.....	Montgomery county, Alabama.
KNOWLES, A. B.....	Lee county, Ala.
LLOYD, E. R.....	" "
MANGUM, W. W.....	" "
McCoy, E. H.....	Hinds county, Mississippi.
*McNEIL, A. A.....	Linden, Ala.
*McNEIL, W. N.....	" "
McRITCHIE, T. B.....	Auburn, Ala.
PATTERSON, F. F.....	Selma, Ala.
PEAKE, J. B.....	Lowndes county, Ala.
PERRY, F. H.....	Auburn, Ala.
ROBINSON, D. F.....	Montgomery, Ala.
ROBINSON, J. J.....	" "
ROSS, C. H.....	Auburn, Ala.
SCHOWALTER, M. R.....	Point Clear, Ala.
SIDDALL, W. J.....	Lee county, Ala.
SMITH, A. G.....	Eufaula, Ala.
SMITH, H. M.....	Opelika, Ala.
WOOD, J. D.....	Henry county, Ala.
WRIGHT, R. H.....	Auburn, Alabama.

#### RECAPITULATION.

First Class.....	20
Second Class.....	18
Third Class.....	57
Fourth Class.....	50
Partial Course.....	5
Preparatory Department—First Section.....	42
" " Second ".....	37—229



## TERMS OF ADMISSION.

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Candidates for admission to the Fourth Class of the College Course, must be fourteen years of age, and pass a creditable examination in the subjects of the preparatory course. A proportionate increase of age and advancement in studies will be required for entrance into higher classes.

Entrance examinations will be held on Monday and Tuesday preceding the opening of each term in September and February, at which all applicants should be present.

Candidates for admission will be confined to one of the Regular or Special Courses ; if upon examination an applicant shall be found prepared in all but one of the studies of the class for which he applies, he may be allowed one year to bring up that subject.

No one will be admitted who has been expelled or dismissed from any other college.

Satisfactory testimonials of good moral character are in all cases required.

Students, on their arrival, will report immediately to the President, and present their testimonials and instructions. After having paid their fees to the Treasurer, they will report to the Examining Committee, by whom, after examination, they will be assigned to appropriate classes. Upon presenting their certificates of examination and the receipts of the Treasurer, applicants will be matriculated by the Commandant, who will furnish to each one a copy of the Regulations, and assign him to his proper section and company.



# COURSES OF INSTRUCTION.

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There are four regular Degree Courses in this Institution, designated as follows :

## I.

### COURSE IN AGRICULTURE.

*Degree, Bachelor of Scientific Agriculture ; B. S. A.*

## II.

### COURSE IN ENGINEERING.

*Degree, Bachelor of Engineering ; B. E.*

## III.

### COURSE IN LITERATURE.

*Degree, Bachelor of Arts ; A. B.*

## IV.

### COURSE IN SCIENCE.

*Degree, Bachelor of Science ; B. S.*

Each of these Courses requires four years for its accomplishment, and to entitle the student to the Degree he must stand an approved Examination in the studies prescribed for the Course. For the first two years the studies in all of the Degree Courses (which are the same as those pursued in the Freshman and Sophomore Classes of other Colleges) are identical, except that students in the Departments of Agriculture, Engineering and Science, may, if they prefer, substitute the Modern Languages (French and German) for Latin and Greek. Having completed the studies prescribed for these two years, the student may elect either of the Regular Degree Courses.

## I. COURSE IN AGRICULTURE.

The design of this Course is to furnish the student with a

plan of study especially adapted to the wants of those who propose to devote themselves to Agricultural pursuits; not so much by training in the practical processes of the Farm, as by affording instruction in the principles of correct husbandry, and in those sciences which relate particularly to the cultivation of the soil.

The Course requires four years for its completion, the first two years, however, being devoted to studies which are common to the Literary Course, except that students who propose to take the Course in Agriculture may, if they prefer, substitute the Modern for the Ancient Languages.

Having gone through this course of study, which is thought to be essential to a liberal education for any of the practical pursuits of life, the student is prepared to enter upon the technical studies in the course, which occupy the remaining two years. These technical studies embrace the following subjects:

1. *Mechanics and Physics*, in which the class makes daily recitations during the Fall term of the first year.

2. *Botany*, two recitations weekly the Spring term of the first year.

3. *Descriptive Astronomy and Meteorology*, three recitations weekly during the Fall term of the second year.

4. *Geology and Mineralogy*, three recitations weekly during the Spring term of the second year.

5. *Zoology and Entomology*, two recitations weekly throughout the second year.

6. *Agricultural Chemistry*, with practical instruction in quantitative and qualitative analysis of soils and fertilizers, to which two hours are devoted daily throughout the first year.

7. *Vegetable Physiology*, embracing the structure and habits of plants, and their relations to the soil and the atmosphere, occupying two recitations weekly throughout the first year.

8. *Practical Husbandry*, embracing the subjects of soils, their cultivation, fertilization, drainage and irrigation; Farm Crops; Farm Implements and Machinery; Farm Animals

Fruit Culture ; Market Gardening ; Horticulture and Landscape Gardening ; in which instruction is given daily by text books and lectures during the entire course of two years.

For the purpose of illustrating and exemplifying the principles taught in the text books and lectures, the College is furnished with the following appliances :

1. An extensive Mineralogical and Geological Cabinet, and a Museum of Natural History.

2. A commodious Laboratory, supplied with troughs, furnaces, balances and the necessary chemicals and apparatus for making analyses.

3. An Experimental Farm of Twenty Acres, devoted to soil tests of fertilizers and experiments in the cultivation of field crops, grasses, fruits and flowers, under the supervision of the Professor of Agriculture.

In addition to the technical studies embraced in this Course, the Class in Agriculture is required to make three recitations weekly in Political Economy, during the Spring term of the second year ; and also to attend lectures weekly upon Constitutional Law and the Law of Contracts, Conveyancing, and Landlord and Tenant, in which it is designed to furnish such instruction as will be of service to the practical agriculturist.

## II. COURSE IN ENGINEERING.

This Course extends the Scientific Course in applied mathematics, embraces full instruction in regard to the construction of common roads, pikes, railroads, bridges, canals, improvements of rivers, harbors, &c.

In aid of the practical studies of the College, and as a means of familiarizing students with the actual details of work, the Second Class in Engineering will devote two weeks in December, and the First Class four weeks in May, to field work, and to visits of inspection to machine shops, mills, mines, furnaces, and engineering constructions within convenient reach.

The Senior Class of the Engineering Course, is organized as an Engineering Corps, and goes through all the necessary

operations for the construction of a railroad from Auburn to some selected terminus.

Preliminary study of maps.

Reconnoissance.

Running Preliminary lines.

Maps and Memoirs of same.

Final location of road ; Grades and Curves.

Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work, and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them (with drafts) are required. Both theory and practice are thoroughly taught.

The work in this Course begins with the first Collegiate term.

*The Course in Drawing* extends through four years. During the first year the students practice linear and freehand drawing. In the second year the elementary principles of instrument drawing, embracing a course of orthographic and isometrical projections, shades and shadows, structural drawing and topographical delineation, are taught. This course is obligatory on the students of all the Courses, except the Course in Literature.

During the third and fourth years, instruction in drawing is obligatory only on the students in Civil Engineering. In the former year the system of instruction embraces orthographic projections, isometric drawing, shades and shadows, tinting in India ink and colors, the practice of drawing in sketches of tools, the finished work of machines, bridges and other structures. In the last, or fourth year of the Course in Engineering, the students are taught perspective. They then cease to draw for mere practice, and use their graphical skill in machine construction, in making drawings of works visited in excursions to mines, furnaces, water, gas and railway structures. Plans, profiles and sections of railroad surveys complete the course.

*Drawing Instruments.*—The instruments used at the College are the Swiss, which are preferred for their general excellence and moderate cost. The instruments, with the materials for geometrical and topographical drawing, cost from ten to twenty-five dollars. The student is advised to defer his purchases of drawing instruments and material until he comes to the College, when he will have the advantage of procuring them under the direction of the Professor of Drawing.

*The Drawing Room* is fitted up with all necessary arrangements. A full set of geometrical models is provided. A large number of photographs, lithographs and manuscript drawings—English, German and French—have been imported. They illustrate the following subjects: General Descriptive Geometry, Linear Perspective, Shades, Shadows, and Reflections, Masonry and Stone Cutting, Girders and Trusses of Wood and Iron; Furnaces, Boilers, Railroad Shops, Depots, Offices, Machines, and their details, shown in the conventional colors used in France and Germany.

A selection of portfolios in landscape, figure and classic subjects, and casts from the gallery of the Louvre in Paris, is calculated to meet the wants of students desiring to pursue a full course in freehand drawing.

### III. COURSE IN LITERATURE.

This is the usual A. B. Course of American Colleges, and the plan of study is substantially the same as that required for this Degree in the best literary institutions of the country. It embraces a thorough course of the Latin and Greek Languages, running through the entire four years; the study of English in its linguistic elements, as well as its Literature, including Rhetoric and Logic; History, Ancient and Modern; Philosophy, Mental, Moral and Political; Mathematics, Pure and Applied; and Natural Sciences, including Chemistry, Botany, Astronomy, Geology and Physics.

Monthly exercises in Declamation and Composition are required of all students, during the first and second years, and the higher classes in the Literary Course deliver three original orations during the year.



## IV. COURSE IN SCIENCE.

This Course is intended for those who wish to pursue the study of the Physical Sciences in a more extended course than that prescribed in the Literary Course, with the privilege, at the same time, of substituting the Modern for the Ancient Languages.

The subjects embraced are Mechanics and Physics; Botany; Chemistry, including work in the Laboratory in Qualitative and Quantitative Analysis; Descriptive and Practical, Astronomy; Mineralogy; Geology and Meteorology.

The purpose is to afford to the student every facility for thorough instruction, in the way of experiment and illustration, in connection with the text books and daily lectures by the Professors of Chemistry and Natural History.

*The Chemical Laboratory* is admirably fitted up for work in Analysis. It consists of a Lecture Room furnished with Counters, Pneumatic Trough, Gasometer and large glass case; a Work Room with twenty-five work tables; a Furnace Room, and a Balance Room. All are supplied with gas and water. Every student pursuing Analytical Chemistry is provided with a separate work table, the necessary chemicals and apparatus, a jet of gas with Bunsen's burners, and enameled water sinks. In the Balance Room are balances made by Oertling of London and Becker of New York.

## PHILOSOPHICAL APPARATUS.

The Philosophical Department of the College has been rendered more efficient, during the past year, by the addition of five hundred dollars' worth of the most improved modern apparatus. Special appropriations will be made for increasing the facilities of this department as the funds of the College will permit.

## MUSEUM AND MINERALOGICAL CABINET.

The Museum is comprehensive in its scope, embracing many rare and valuable specimens. The private collection of the Professor of Natural History (consisting of 4,265 specimens) added to that of the College (consisting of 6,358 spec-

imens) renders the study of Geology, Mineralogy and Zoology, both instructive and interesting.

We earnestly request the citizens of the State to forward to the Professor of Mineralogy and Geology any specimens which may be useful in the geological study of Alabama.

By an act of the Legislature appointing a State Geologist, it is made his duty to furnish this institution a full set of all the minerals of the State, thus giving a prospective increase to our already valuable cabinet, and by which the Geology of Alabama may be fully illustrated.



## SPECIAL COURSES.

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In addition to the four regular DEGREE COURSES, there are four Special Courses provided for those who do not wish to complete the full plan of study required for graduation in the Degree Courses. Upon completing any one of the Special Courses, and having passed a satisfactory examination in the studies thereof, the Student is entitled to a *Certificate of Proficiency*.

### I. THE COURSE IN COMMERCE.

This Course is designed to meet the wants of those who have not the time and means requisite for a full Collegiate Course, but who wish, while fitting themselves for the practical duties of life, to acquire a good general education, such as would not be afforded by a Business College. It is intended to embrace two years, combining the work of the first section of the Preparatory Department with the regular work of the Fourth Class, substituting commercial arithmetic, book keeping, and training in business forms and correspondence, for an equivalent amount of work in ancient or modern languages and drawing. It is based on a thorough training in English grammar and plain mathematics.

If fully prepared to enter the Fourth Class, this course can be completed by the student in one year. Upon a satisfactory completion of the course, a certificate of proficiency will be given.

### II. COURSE IN TELEGRAPHY.

This course is intended to prepare students for practical office work. The scope of study is the same as that prescribed by the Commercial Course, except in the second year Telegraphy is substituted for Commercial Arithmetic and Book-keeping.

The student is made familiar with the principles of the different kinds of Batteries—adjustment and care of the Instruments—how to build and operate a telegraph line, and keep it in repair—and all other essential items that make a first class operator.

Upon a satisfactory completion of the course, a certificate of proficiency will be given.

### III. COURSE IN SURVEYING.

This Course is intended to fit the student for the proper discharge of the duties of deputy surveyor, according to the Manual of Instructions of the Commissioners of the General Land Office, for surveying the public lands of the United States.

An approved examination must be passed in Mathematics, Surveying, Drawing, and English of the Fourth and Third Classes. Special work in map drawing, and the use of the solar compass and theodolite, is required. A certificate of proficiency in surveying will be granted on completion of this course.

### IV. COURSE IN ARCHITECTURE.

Students desiring a partial course in Engineering may omit a part of the higher Mathematics, Chemistry, and study of languages. The course would consist of Architectural Drawing, equilibrium and stability of structures, arches, trusses, roofs, building material, mortars, &c.

# COURSE OF STUDY.

FOR TWO YEARS.

## PREPARATORY TO SPECIAL COURSES IN AGRICULTURE, LITERATURE, SCIENCE, AND ENGINEERING.

(NOTE.—The figures indicate the number of weekly recitations required in the studies to which they are attached.)

### FOURTH CLASS.

ENGLISH.....	<i>First Term</i> —5 History and Composition. <i>Second Term</i> —5 History and Composition.
MATHEMATICS.....	<i>First Term</i> —5 Algebra. <i>Second Term</i> —5 Geometry and Plane Trigonometry.
LANGUAGES.....	<i>First Term</i> —5 French or 4 Latin and 3 Greek. <i>Second Term</i> —5 French or 4 Latin and 3 Greek.
*DRAWING.....	<i>First Term</i> —2 Linear Drawing. <i>Second Term</i> —2 Freehand Drawing.
MILITARY.....	<i>First and Second Terms</i> —5 Drill.

### THIRD CLASS.

ENGLISH.....	<i>First Term</i> —2 Rhetoric. <i>Second Term</i> —1 English Classics.
MATHEMATICS.....	<i>First Term</i> —3 Solid Geometry and Mensuration. <i>Second Term</i> —3 Spherical Trigonometry, Analytical Geometry.
LANGUAGES.....	<i>First Term</i> —5 German or 4 Latin and 3 Greek. <i>Second Term</i> —5 German or 4 Latin and 3 Greek.
NATURAL SCIENCE....	<i>First Term</i> —3 Physics. <i>Second Term</i> —5 Chemistry.
GEODESY.....	<i>First Term</i> —2 Compass and Chain Surveying, and Plane Table Surveying, Theory and Practice ; use of Field Instruments. <i>Second Term</i> —2 Trigonometrical and Topographical Surveying and Leveling, Theory & Practice.
*DRAWING.....	<i>First and Second Terms</i> —2 Topographical Drawing ; Machine Drawing.
MILITARY.....	<i>First and Second Terms</i> —1 Tactics ; 5 Drill.

\* Not required in Literary Course.

(NOTE.—Students proposing to pursue the course in LITERATURE, are required

## COURSE IN AGRICULTURE.

## SECOND CLASS.

ENGLISH.....	<i>First Term—3 English and American Literature. Second Term—3 Logic.</i>
NATURAL SCIENCE....	<i>First Term—5 Mechanics and Physics. Second Term—2 Botany.</i>
CHEMISTRY.....	<i>First and Second Terms—5 Qualitative and Quantitative Analysis.</i>
AGRICULTURE.....	<i>First Term—3 Soils; Drainage; Irrigation; Fertilization. Second Term—5 Farm Crops; Implements and Animals.</i>
MILITARY.....	<i>First and Second Terms—2 Tactics; 5 Drill.</i>

## FIRST CLASS.

ENGLISH.....	<i>Second Term—3 Political Economy.</i>
NATURAL SCIENCE....	<i>First and Second Terms—3 Descriptive Astronomy; 3 Geology; 2 Mineralogy; Meteorology.</i>
NATURAL HISTORY....	<i>First Term—3 Zoology. Second Term—3 Entomology, Insects injurious and beneficial to vegetation.</i>
AGRICULTURE.....	<i>First Term—5 Fruit Culture; Market Gardening. Second Term—5 Floriculture; Landscape Gardening.</i>
CHEMISTRY.....	<i>First Term—2 How Crops Grow. Second Term—2 How Crops Feed.</i>
MILITARY.....	<i>First and Second Terms—1 Tactics; 5 Drill, Artillery and Infantry.</i>

## COURSE IN ENGINEERING.

## SECOND CLASS.

ENGLISH.....	<i>First Term—3 English and American Literature.</i>
MATHEMATICS.....	<i>First Term—3 Analytical Geometry. Second Term—3 Calculus.</i>
NATURAL SCIENCE....	<i>First Term—5 Mechanics and Physics. Second Term—2 Botany.</i>
ENGINEERING.....	<i>First Term—5 Hydrographical, Topographical and Town Surveying, Theory and Practice.</i>

to take Latin and Greek; those proposing to pursue the course of AGRICULTURE, SCIENCE, or ENGINEERING, are required to take either French and German, or an equivalent in Latin. Monthly Exercises in Composition and Declamation are required of all Students of the Third and Fourth Classes.)

*Second Term*—5 Line Surveying; Common Roads; Railroads; Canals; Tunnels; Staking out for Construction.

**DRAWING**.....*First Term*—5 Bridge Drawing.

*Second Term*—5 Sketches of Tools; of the Component Parts of Machines; and of Bridges and other Structures.

**MILITARY**.....*First and Second Terms*—2 Tactics; 5 Drill, Artillery and Infantry.

### FIRST CLASS.

**MATHEMATICS** .....*First Term*—3 Practical Astronomy.

**NATURAL SCIENCE** .....*First and Second Terms*—3 Descriptive Astronomy; 3 Geology; 3 Meteorology.

**CIVIL ENGINEERING**...*First and Second Terms*—10 Building Materials; Mortars and Cements; Masonry; Wood and Metals; Strength of Materials; Arches; Framing Bridges and Road Making; Mining.

**TOPOGRAPHICAL DRAWING** { *First and Second Terms*—10 Plans, Profiles, and Sections of Railroad Surveys.

**MILITARY**.....*First and Second Terms*—1 Tactics; 5 Drill, Artillery and Infantry.

## COURSE IN LITERATURE.

### SECOND CLASS.

**ENGLISH** .....*First Term*—3 English and American Literature.  
*Second Term*—3 Logic.

**MATHEMATICS**.....*First Term*—3 Analytical Geometry.

**LANGUAGES**.....*First Term*—5 Latin and Greek.

*Second Term*—5 Latin; 5 Greek.

**NATURAL SCIENCE**....*First Term*—5 Mechanics and Physics.

**MILITARY**.....*First and Second Terms*—2 Tactics; 5 Drill.

### FIRST CLASS.

**ENGLISH** .....*First Term*—5 Mental and Moral Philosophy.

*Second Term*—3 Political Economy.

**LANGUAGES**.....*First Term*—4 Latin; 4 Greek.

*Second Term*—5 Latin; 5 Greek.

**NATURAL SCIENCE**....*First and Second Terms*—3 Descriptive Astronomy; 3 Geology; 3 Meteorology.

**MILITARY** .....*First and Second Terms*—1 Tactics; 5 Drill, Artillery and Infantry.

## COURSE IN SCIENCE.

## SECOND CLASS.

ENGLISH .....	<i>First Term</i> —3 English and American Literature. <i>Second Term</i> —3 Logic.
MATHEMATICS.....	<i>First Term</i> —3 Analytical Geometry. <i>Second Term</i> —3 Calculus.
NATURAL SCIENCE....	<i>First Term</i> —5 Mechanics and Physics. <i>Second Term</i> —2 Botany.
CHEMISTRY.....	<i>First Term</i> —3 Qualitative and Quantitative Analysis. <i>Second Term</i> —5 Qualitative and Quantitative Analysis.
MILITARY.....	<i>First and Second Terms</i> —2 Tactics; 5 Drill.

## FIRST CLASS.

ENGLISH.....	<i>Second Term</i> —3 Political Economy.
MATHEMATICS.....	<i>First Term</i> —3 Practical Astronomy.
NATURAL SCIENCE....	<i>First and Second Terms</i> —3 Descriptive Astronomy; 2 Mineralogy; Geology; 3 Meteorology.
LABORATORY.....	<i>First and Second Terms</i> —10 Work in Laboratory.
MILITARY.....	<i>First and Second Terms</i> —1 Tactics; 5 Drill, Artillery and Infantry.

## COURSE IN COMMERCE.

## FIRST YEAR.

ENGLISH .....	<i>First Term</i> —Orthography; History of United States; English Grammar; Elocution. <i>Second Term</i> —Orthography; History of England; English Composition; Elocution.
MATHEMATICS.....	<i>First and Second Terms</i> —Arithmetic; Algebra.
COMMERCE.....	<i>First and Second Terms</i> —Penmanship; Mental Arithmetic; Book-keeping.

## SECOND YEAR.

ENGLISH .....	<i>First and Second Terms</i> —2 English Grammar; Composition; Oratory.
MATHEMATICS.....	<i>First Term</i> —5 Complete Algebra. <i>Second Term</i> —5 Geometry and Plane Trigonometry.
COMMERCE.....	<i>First Term</i> —5 Commercial Arithmetic. <i>Second Term</i> —5       “       “
BOOK-KEEPING.....	<i>First Term</i> —5 Book-keeping. <i>Second Term</i> —5 Book-keeping; Business Forms; Commercial Correspondence.
MILITARY.....	<i>First and Second Terms</i> —5 Drill.



## TELEGRAPHIC COURSE.

Same as Commercial Course, except in second year Telegraphy is substituted for Commercial Arithmetic and Book-keeping.

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## COURSE IN SURVEYING

### FIRST YEAR.

5. History and Composition.
5. Algebra, Geometry, Trigonometry.
5. Lineas and Freehand Drawing.

### SECOND YEAR.

2. English.
  3. Geometry, Mensuration, Analytical Geometry.
  5. Campass and Chain Surveying, Trigonometrical and Topographical Surveying, Levelling.
  5. Map and Topographical Drawing.
  1. Tactics.
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## COURSE IN ARCHITECTURE.

### FIRST YEAR.

5. History and Composition.
5. Algebra, Geometry, Trigonometry.
5. Linear and Freehand Drawing.

### SECOND YEAR.

2. English.
  3. Geometry, Mensuration, Analytical Geometry.
  3. Physics, first term. Mechanics, second term.
  5. Compass and Chain Surveying, Trigonometrical and Topographical Surveying, Levelling.
  5. Architectural Drawing.
  1. Tactics.
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## TEXT BOOKS.

### FOURTH CLASS.

Robinson's Complete Algebra, Davies' Legendre, (new edition), Davies' Trigonometry, Bloss' Ancient History, Essentials of English Grammar (Whitney). *French:* Otto's French Grammar and Reader, Chrestomathie Francaise, Surrenne's Dictionary. Davidson's Linear Drawing, White's Art Studies, Bryant and Stratton's Book-keeping, Bryant and Stratton's Commercial Arithmetic,



Upton's Infantry Tactics, Allen & Greenough's or Chase and Stuart's Latin Texts, Cicero's Orations, Virgil, Xenophon's Anabasis (Goodwin), White's Greek Lessons, Mythology.

### THIRD CLASS.

Geometry, Davies' Legendre, Loomis' Analytical Geometry (new edition), Davidson's Projections and Model Drawing, Davies' Surveying and Mensuration, Bloxam's Chemistry, Avery's Elements Natural Philosophy, Otto Joyne's German Reader, Schiller's Wilhelm Tell, Adler's German Dictionary, Hart's Composition and Rhetoric, Selections from English Authors, United States Army Regulations, Tacitus Germania, Horace, Herodotus, Homer (Boise or Sidgwick), Latin and Greek Composition (Jones).

### SECOND CLASS.

Loomis' Analytical Geometry (new edition), Loomis' Differential Calculus (new edition), Magnus Mechanics, Natural Philosophy (Course of Lectures), Gray's Botany, Church's Laboratory Guide, Caldwell's Agricultural Analysis, American Farm Book, Smith's Linear Perspective, Henck's Field Book, Barry's Railway Appliances, Hudson's Shakespeare, Shaw's History of English Literature, Logic, Coppee, Welcker's Military Lessons, Horace, Terence, Latin Composition (Allen & Greenough), Demosthenes, Alcestis, Greek Composition (Jones).

### FIRST CLASS.

Loomis' Integral Calculus, Mahan's Engineering, Mahan's Industrial Drawing, Lockyer's Astronomy, Dana's Mineralogy, Dana's Geology, Maury's Meteorology, (Lectures), Hickok's Moral Science, Walker's Political Economy, Henderson's Gardening for Profit, How Crops Grow, How Crops Feed, Tenney's Elements of Zoology. Entomology (Lectures), Mott's Manual of Chemistry, Wohler's Mineral Analysis, Barry's Fruit Garden, Henderson's Floriculture, Kemp's Landscape Gardening, United States Artillery Tactics, Juvenal, Plantus, Cicero, Latin Literature (Bender) and Composition, Aristophanes, Oedipus' Tyrannus, Greek Literature (Jebb) and Composition.

### REFERENCE BOOKS.

Dana's System of Mineralogy, LeConte's Geology, Loomis' Meteorology, Garrott's Natural Philosophy, Brush's Determinative Mineralogy, Fresenius' Qualitative and Quantitative Analysis. Plattner's Blow Pipe Analysis, Smith's and Enthoffer's Topography, Rankine's Engineering and Applied Mechanics, Stoney on Strains, Wood's Roofs and Bridges, Merrill on Bridges, Warren's Machine Drawing, Dempsey on Drainage, French on Farm Draining, Scmitz's Student's Classical Atlas, Church's Descriptive Geometry and Shades and Shadows, Peck's Mechanics, Wiesbbach's Mechanics, Mahan's Stone Cutting, Dubois' Graphical Statics, Simm's on Levelling, Ernst's Military Engineering Anthon's Classical Dictionary, Smith's Roman and Grecian Antiquities, Madvig's Latin Grammar, Goodwin's Syntax of the Moods and Tenses, and Curtius' Greek Grammar.

## **PREPARATORY DEPARTMENT.**

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In view of the imperfect preparation of many applicants for admission into the College, and of the want of educational facilities in many localities for suitable preparation for college, or even for obtaining a good academic education, there has been established in connection with the Agricultural and Mechanical College, a PREPARATORY DEPARTMENT.

This Department is intended to be auxiliary to the higher departments of the College, and especially to prepare students to enter the fourth class of any course of the College. It is in charge of competent instructors. It affords unusual facilities for thorough preparation for the College courses, or for a good academic education.

### **ORGANIZATION.**

This school is divided into two classes, styled First and Second Sections. Applicants for admission must be at least twelve years old, and should submit to the President satisfactory testimonials of good moral character. Candidates for admission to the Second Section will be examined as follows: In Reading, Spelling, Elementary Geography, Arithmetic through long division, Elementary English Grammar. Candidates for the First Section will be examined in the studies of the lower section. Applicants for admission to either Section, after the Term has opened, will be examined in those portions of Text Books which have been passed over. All the studies of this Department are obligatory, except Latin and Greek, for which Book-keeping may be substituted. A certificate of proficiency, based upon an examination on all the subjects of this Department, will be requisite for promotion to the Fourth College Class.

### **EXPENSES.**

The expenses of students in this Department are the same

as those of the College Classes proper, and the various remarks under the head of SPECIAL INFORMATION, of the present Catalogue, are applicable alike to the College and the Preparatory Department. Students five feet high and fourteen years of age, are assigned to the Corps of Cadets, and must wear the College uniform. Students under that age are not required to wear the uniform, and if rooming at home, and *not* members of the Corps of Cadets, do not pay the surgeon's fee.

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## COURSES OF INSTRUCTION.

### SECOND SECTION—FIRST YEAR.

Orthography, Reading, Penmanship, Arithmetic.

Geography and Map Drawing.

English Grammar and Composition, Latin, History of the United States.

### FIRST SECTION—SECOND YEAR.

English—1st Term—Orthography, U. S. History, English Grammar.

2d Term—Orthography, English History, English Composition.

Mathematics—1st and 2d Terms—5 Algebra, 5 Arithmetic.

Languages—1st and 2d Terms—5 Latin, 5 Greek.

Penmanship—Daily. Elocution—Weekly.

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## TEXT BOOKS.

### PREPARATORY DEPARTMENT.

Goodrich's Sixth Reader, Payson, Dunton and Scribner's Penmanship, Swinton's Word Book, Swinton's Word Analysis, Cornell's Intermediate Geography, Ridpath's History of the United States, Anderson's History of England, Hart's English Grammar, Robinson's Practical Arithmetic, Robinson's Elementary Algebra, Robinson's Mental Arithmetic. *Latin*: Allen and Greenough's Latin Grammar and (new) Method, Cæsar, Sallust (Chase and Stuart). *Greek*: Goodwin's Greek Grammar, and White's or Boise's Lessons; Anabasis, (Goodwin).

## Degrees and Post Graduate Courses.

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The degrees of Bachelor of Arts, Bachelor of Agriculture, Bachelor of Science, and Bachelor of Engineering, will be granted only to those who have passed satisfactory examinations in their respective courses. The completion of the post graduate course of one year, will entitle the graduate of Engineering to the degree of Civil Engineer, and the graduate in Agriculture, Literature and Science, to the degree of Master in that course.

Certificates of Proficiency will be granted Cadets upon completion of the courses of Surveying, Architecture, Commerce and Telegraphy.

All degrees of regular courses must be conferred upon recommendation of the Faculty, approved by the Board of Trustees.

Bad character, or college delinquency of any kind, shall be good reason for exclusion from a degree.

Each graduate shall prepare and submit to the Faculty a thesis on some subject of immediate relation to the studies of his course.

Applicants for degrees and certificates shall notify the Faculty at least one term before Commencement.

No Cadet of the College will be admitted to any degree unless he shall have exhibited to the President of the College a certificate from the Treasurer that his College dues are all paid, and shall have performed the exercises assigned by the Faculty for Commencement.

## SPECIAL INFORMATION.

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### DEPARTMENT OF MILITARY, SCIENCE AND TACTICS.

By the act of Congress for the endowment of Agricultural and Mechanical Colleges, in prescribing the required studies, the words, "*including* military tactics," are used. The act is designed to be faithfully carried out, by imparting to each student, not physically incapacitated to bear arms, practical instruction in the school of the soldier, of the company, and of the battalion. The duties of guards, outpost and picket service, are practically taught. The College is provided, by the State, with breach-loading cadet rifles, swords, and accoutrements.

The following uniform has been prescribed for dress, viz: Frock of Cadet gray, three rows of College buttons; gray pants and black hat, trimmings black. A very neat and serviceable dress suit can be obtained here, not to exceed \$25, and a fatigue suit, not to exceed \$18—sufficient, with proper care, for one year's service. This is less expensive than the usual clothing. All students are required to wear this uniform at all times during the term. In attendance upon drills and guard, students lose no time from academic studies.

The drills are short, and the military duty involves no hardship. The military drill is health-giving exercise, and its good effects in the development of the *physique* and improvement of the carriage of the Cadet is manifest.

The entire body of students is divided into companies. The officers are selected for proficiency in drill and deportment. Each Company is officered by one Captain, one First Lieutenant, one Second Lieutenant, with a proper number of Sergeants and Corporals. The officers and non-commissioned officers are distinguished by appropriate insignia of



rank. These appointments are conferred by the Commandant of Cadets, as honorary distinctions, and are continuous for the collegiate year, unless forfeited by misconduct.

*Cadet-officers* are regarded as *assistants in the enforcement of discipline*; their orders are to be considered as duly authorized and to be obeyed accordingly. They are expected to set examples of military deportment and general good conduct to other Cadets. Cadet-officers, squad-marchers and sentries are required, under pain of being themselves reported delinquent, to report all facts of delinquency falling under their notice in the performance of their duties. It is made the special duty of every non-commissioned officer to report lateness, disorder in ranks, and all infractions of rules falling under his notice while on duty with his company, guard, or other detachment.

No Cadet, or other person, shall be questioned in any way on account of reports rendered by him, nor shall he hold any conversation relating to it with the Cadet reported.

Appointments and promotions in Corps are honorable distinctions for military proficiency and good conduct.

Promotions will take place in the order of original appointment only when efficiency, fidelity, progress in studies, conduct and other qualifications warrant them.

Every officer, commissioned and non-commissioned, upon appointment or promotion, is required to pledge himself to a faithful discharge of his official duties.

Every Cadet to whom arms and accoutrements are issued, will be held strictly accountable, not only for their preservation, but for their perfect good order at all times.

The prescribed dress will be strictly adhered to, nor will the slightest deviation be allowed. The wearing of fancy cravats, fancy caps, etc., will not be tolerated upon any pretense whatever. Hair will be worn short, and whiskers and moustaches not allowed.

#### FREE TUITION.

The Trustees have authorized the Faculty to admit all Cadets free of tuition. This is not limited to residents of the State. No charge is made for instruction. An incidental

fee of seven and a half dollars per term is made for servant's attendance in building, fuel, ordinary repairs, use of instruments and chemicals.

A fee of two and a half dollars per term is paid to the Surgeon by each Cadet for medical services. No other College fees are required.

#### **SESSION RECORDS AND CIRCULARS.**

Daily records of the various exercises of the classes are kept by the officers of instruction in a form adapted to permanent preservation. From this record a circular or statement is sent to the parents or guardian every two months.

#### **EXAMINATIONS.**

There shall be a written or oral examination of the studies passed over at the end of each term.

A general yearly average of 70 (the maximum mark being 100) in scholarship will be required to pass a student from any class to the next higher, and if a mark less than 60 is attained in any study, he shall, in addition, be required to pass another examination in that study at the beginning of the ensuing session, before being allowed to pass up; and if found deficient on account of neglect of study, he may be dismissed.

It is particularly required that every student who enters the college shall remain through the examination at the end of the term. Leaves of absence and honorable discharges will, therefore, not be granted within six weeks of the examination, except in extreme cases.

Examinations for Degrees or Certificates of Proficiency embrace in their scope the entire subject of study in the course.

#### **DISCIPLINE.**

Military science and tactics are required to be taught in this Institution, both by law of Congress and by act of the State Legislature. The discipline is modeled after that of the best military schools. The government of the College is administered by the President, Commandant and Faculty, in



accordance with the Code of Laws and Regulations enacted by the Trustees and published ; each student upon matriculation being furnished with a copy.

The strictest attention to study, and the most exact punctuality in attendance on recitations, and all other duties, will be made the *condition* of every student's continuance at the College ; and any student who, without authority, absents himself from recitation, or any other duty, deserts his class, or refuses to attend when warned, shall be dismissed, or less severely punished, at the discretion of the Faculty.

Students are prohibited, under penalty of dismissal, from having in their possession ammunition, weapons or arms not issued for the performance of military duty ; nor shall these be kept loaded in quarters under any pretext.

Students are prohibited entering into combinations under any pretext. One who shall begin, excite, cause or join in any boisterous or riotous conduct, or becomes a party to any agreement to avoid or violate any regulation, to hold no intercourse with a comrade, or to do any act to the prejudice of good order and military discipline, shall be dismissed.

No student shall have in his possession, or play at, cards, or games of chance, engage in a raffle, or in any manner wager money or other things, on penalty of dismissal.

Permission to attend private parties, or places of public amusements, will not be granted during the term.

No Cadet will be granted a leave of absence more than five times *during a term of twenty weeks*. No Cadet will be granted a leave of absence from study which interferes with his attendance on recitation, except on the application of the parent or guardian, addressed directly to the Commandant, and not through the Cadet.

A student who shall drink, or bring, or cause to be brought within the Cadet's limits, or have or allow in his room, tent, or otherwise in his possession, any fermented or intoxicating liquor, or fruits or viands preserved in intoxicating liquor, shall be dismissed.

A student who shall cut, mark, or otherwise injure or

deface the buildings, furniture or appurtenances; the trees, shrubbery, green-sward, grounds, fences, stables, or out-houses; or who shall lose, injure, destroy, or improperly dispose of the arms, accoutrements, or other property of the College, shall make good all damage, and be dismissed or otherwise punished, according to the nature of the offense.

A student who is discharged, dismissed or suspended, must leave the College grounds immediately. Should he continue to wear the uniform, the fact that he is no longer a member of the College may be published.

Any student who shall overstay a leave of absence, must produce satisfactory evidence of his having been detained by sickness, by his parent or guardian, or by some unavoidable cause, otherwise he will be dismissed, or otherwise punished.

Day scholars detained at home from any cause, must render written excuse, approved by parent, guardian or physician, setting forth substantial reasons satisfactory to the Commandant, for the detention; otherwise their reports will not be excused.

To each recorded delinquency a number of from one to ten, proportional to the degree of the offense in a moral and military view, is assigned to express demerit.

If any student receives 150 demerits for the whole or any part of the academic year, or 250 for a greater period, he shall be declared deficient and dismissed.

#### **RELIGIOUS SERVICES.**

Religious services are held every morning in the chapel.

The students are required to attend these exercises, and also to attend the church of their choice at least once on Sunday. Opportunities are also offered for attending Bible Classes every Sunday.

By statute of the State the sale of spirituous liquors and keeping of gaming saloons of every kind, within five miles of Auburn, are forbidden.

The College will be carefully preserved from the control or domination of any party or sect in religion or politics.

### LOCATION AND BUILDING.

The College is situated in the town of Auburn, sixty miles from Montgomery, directly on the line of the Western Railroad.

The region is high and healthful, 821 feet above tide-water, being more elevated than Montgomery by 659 feet, or than Talladega by 200 feet.

The building is large and commodious, and is well furnished with rooms for college use.

### SOCIETIES.

There are two Literary Societies—the Wirt and the Websterian—connected with the College. Each has a commodious hall handsomely fitted up, a library of standard and miscellaneous works, and a reading room. Their weekly exercises add to the facilities afforded by the College for practice in composition, elocution, and discussion.

### SOCIETY OF ALUMNI.

The Annual Alumni Oration, by a member of the Society, is delivered in the Chapel, Monday evening of Commencement week.

### YOUNG MEN'S CHRISTIAN ASSOCIATION.

This Association comprises the students who are members of churches. Its object is to promote the religious character and usefulness of those connected with it. Weekly meetings are held, and public addresses occasionally delivered.

E. J. Harrison, President.

James Lapsley, Corresponding Secretary.

### BOARDING.

Students, after selecting their boarding-houses, will not be permitted to make changes without first obtaining permission of the Faculty, having first given two weeks notice.

The Faculty will feel authorized to remove students from boarding-houses when it becomes manifest that they are failing in their duties from improper associations, or for any other reason demanding such removal.

Parents and guardians are advised to send all money for payment of tuition and board to the Treasurer of the College, with instructions for its appropriation.

#### EXPENSES.

Tuition free to all Cadets in or out of the State.

Incidental fee, per term, in advance..... \$ 7 50

Surgeon fee..... 2 50

Diploma ..... 5 00

Board, in private families, per month.....\$12 to 15

#### ACADEMIC YEAR.

The academic year, which is divided into two equal terms, commences on the last Wednesday in September, and ends on the last Wednesday in June following, which is Commencement Day. The second term begins on the second Wednesday in February.

# CONTRIBUTIONS.

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## TO AGRICULTURAL DEPARTMENT.

Major I. F. Culver, Bullock county—Two varieties of Indian corn.

Mr. Jos. Hardie, Selma—Specimens of Cultivated Grasses.

Central Oil Mills, Selma—Specimens of crude and refined Cotton-seed Oil ; Specimen of Cotton-seed Meal.

Mr. M. C. Scott, Montgomery—Specimen of Johnson Grass Hay.

Oliver Chilled Plow Company, South Bend, Indiana—Two Turning Plows.

Dr. A. J. Sykes, Lawrence county—Three varieties Strawberry plants.

Nantz & Neuner, Louisville, Kentucky—Package of Flower Seed.

Agricultural Department, Washington—Package of Winter Wheat ; Package of Desmodium Molle.

Mr. Geo. B. Young, Russell county—Two varieties of Cotton Seed.

Etiwan Phosphate Company, Charleston, S. C.—Specimen of Ground Rock.

## TO MUSEUM.

Dr. Eugene A. Smith, State Geologist—23 Specimens of Fossils.

Paul Hoffman—1 Specimen Magnetic Ore.

Dr. J. H. Drake—3 Specimens Petrified Wood.

E. A. Drake (Cadet)—5 Specimens Siliceous Deposit.

Col. R. A. Hardaway—1 Indian Arrow-head.

D. F. Davenport (Cadet)—2 Specimens of Fossils.

J. H. Jeter (Cadet)—1 Specimen Snake.

W. H. Blake—6 Specimens Snake, &c.

J. S. N. Davis (Cadet)—2 Specimens Snake.



Prof. G. W. Maxson—92 Specimens Minerals, Woods, &c.  
Lampkin & Co., Dalton, Georgia—1 Specimen White Soapstone.

R. H. Urquhart—1 Snake.

Miss Katie Smith—2 Specimens of Fungus Growth.

Miss Hattie Foster—6 Specimens Minerals, Fossils, &c.

B. F. Tatum (Cadet)—2 Specimens (Tarantula and Centepede).

Prof. John T. Humphreys, North Carolina—131 Specimens of Minerals.

Prof. E. T. Nelson, Ohio Wesleyan University—24 Specimens Fresh Water Shells.

A. McCord—33 Specimens of Insects.

E. T. Glenn—15 Specimens of Insects.

Col. W. C. Dowdell—25 Specimens of Insect Eggs.

E. A. Price (Cadet)—1 Specimen Bird Skin, and 1 Specimen Wood.

G. R. Hall (Cadet)—2 Specimens (Bird and Turtle).

S. Scheussler (Cadet)—211 Specimens Bird Eggs.

C. B. McCoy (Cadet)—12 Specimens Minerals, &c.

K. M. Cunningham—26 Specimens for Microscopic Slides.

Prof. O. D. Smith—Double-headed Chicken.

#### TO LIBRARY.

Reports for 1878-9, from Chief of Engineers U. States.

“ “ “ “ “ Ordnance.

“ “ “ “ “ Engineers, presented by

Hon. W. J. Samford.

5 vols. Engineering Reports, presented by Hon. Luke Pryor.

6 vols. Reports State of Illinois.

Report of Commissioner of Education for 1878.

Official Catalogue U. S., vol. 1.

Reports Department of Interior, viz: Nos. 1, 2 & 3 of vol. 5.

Cotton Worm; Prof. C. V. Riley.

Bulletin Entomological Commission, Nos. 1 & 2.

The Chinch Bug, Cyrus Thomas, Ph. D.

Geological Exploration of 40th Parallel, vols. 1, 2 & 4.

Geographical Survey West of 100 Meridian, vols. 3 & 4.

# CALENDAR FOR 1880.

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SUNDAY, June 27.

- 10½ A. M.—Commencement Sermon, by Rev. W. C. Cleveland,  
D. D., of Selma.

MONDAY, June 28.

- 10 A. M.—Prize Declamation.....Third Class.  
3 P. M.—Meeting of Board of Trustees.  
6 P. M.—Dress Parade.....Corps.  
8 P. M.—Alumni Address.....T. J. Lamar, A. M.

TUESDAY, June 29.

- 10 A. M.—Orations.....Second Class.  
11 A. M.—Agricultural Address, W. LeRoy Broun, LL. D.,  
of Vanderbilt University.  
4 P. M.—Review of Corps.....by the Governor.  
6 P. M.—Dress Parade.....Corps.  
8 P. M.—Address to Societies, Col. J. W. A. Sanford, of  
Montgomery.

WEDNESDAY, June 30.

- 10 A. M.—Orations.....Graduating Class.  
12 M. —Baccalaureate Address and Conferring Degrees,  
by the President.  
6 P. M.—Dress Parade.....Corps.  
8 P. M.—Levee.....Corps.

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## SESSION OF 1880-81.

First Term begins Wednesday, September 29, 1880.

Second Term begins Wednesday, February 9, 1881.

Entrance Examinations, Monday and Tuesday, September 27 and 28.